

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

YUE, Henry
 TANG, Y. Tom
 CORLEY, Neil C.
 GUEGLER, Karl J.
 GORGONE, Gina A.
 BAUGHN, Mariah R.
 LU, Dyung Aina M.
 LAL, Preeti
 HILLMAN, Jennifer L.
 YANG, Junming

<120> IMMUNOGLOBULIN SUPERFAMILY PROTEINS

<130> PF-0643 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/195,853; unassigned; 60/113,635; 60/128,194

<151> 1998-11-19; 1998-11-19; 1998-12-22; 1999-04-07

<160> 38

<170> PERL Program

<210> 1

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 079785CD1

<400> 1

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Met | Arg | Val | Pro | Ala | Gln | Leu | Leu | Gly | Leu | Leu | Leu | Leu | |
| 1 | | | | 5 | | | | | | 10 | | | | | 15 |
| Trp | Leu | Arg | Gly | Ala | Arg | Cys | Asp | Ile | Gln | Met | Thr | Gln | Ser | Pro | |
| | | | 20 | | | | | | | 25 | | | | | 30 |
| Ser | Ser | Leu | Ser | Ala | Ser | Val | Gly | Asp | Arg | Val | Thr | Ile | Thr | Cys | |
| | | | 35 | | | | | | | 40 | | | | | 45 |
| Arg | Ala | Gly | Gln | Ser | Ile | Ser | Ser | Tyr | Leu | Asn | Trp | Tyr | Gln | Gln | |
| | | | 50 | | | | | | | 55 | | | | | 60 |
| Lys | Pro | Gly | Lys | Ala | Pro | Lys | Leu | Leu | Ile | Tyr | Ala | Ala | Ser | Ser | |
| | | | 65 | | | | | | | 70 | | | | | 75 |
| Leu | Gln | Ser | Gly | Val | Pro | Ser | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | |
| | | | 80 | | | | | | | 85 | | | | | 90 |
| Thr | Asp | Phe | Thr | Thr | Ile | Ser | Ser | Leu | Gln | Pro | Glu | Asp | Phe | | |
| | | | 95 | | | | | | | 100 | | | | | 105 |
| Ala | Thr | Tyr | Tyr | Cys | Gln | Gln | Ser | Tyr | Ser | Thr | Pro | Pro | Ile | Thr | |
| | | | 110 | | | | | | | 115 | | | | | 120 |

| | | | |
|---|-----|-----|-----|
| Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala | 125 | 130 | 135 |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser | 140 | 145 | 150 |
| Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg | 155 | 160 | 165 |
| Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly | 170 | 175 | 180 |
| Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr | 185 | 190 | 195 |
| Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu | 200 | 205 | 210 |
| Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser | 215 | 220 | 225 |
| Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys | 230 | 235 | |

<210> 2

<211> 537

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 2469025CD1

<400> 2

| | | | | |
|---|-----|-----|-----|----|
| Met Asp Leu Leu His Lys Asn Met Lys His Leu Trp Phe Phe Leu | 1 | 5 | 10 | 15 |
| Leu Leu Val Ala Ala Pro Arg Trp Val Leu Ser Gln Val Gln Leu | 20 | 25 | 30 | |
| Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu Thr Leu Ser | 35 | 40 | 45 | |
| Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr Tyr Leu | 50 | 55 | 60 | |
| Ser Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly | 65 | 70 | 75 | |
| Leu Glu Trp Ile Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr | 80 | 85 | 90 | |
| Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser | 95 | 100 | 105 | |
| Lys Asn Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp | 110 | 115 | 120 | |
| Thr Ala Val Tyr Tyr Cys Ala Arg Gly Arg Ser Asp Ser Ser Gly | 125 | 130 | 135 | |
| Ser Pro Tyr Gly Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr | 140 | 145 | 150 | |
| Val Ser Ser Ala Pro Thr Lys Ala Pro Asp Val Phe Pro Ile Ile | 155 | 160 | 165 | |
| Ser Gly Cys Arg His Pro Lys Asp Asn Ser Pro Val Val Leu Ala | 170 | 175 | 180 | |
| Cys Leu Ile Thr Gly Tyr His Pro Thr Ser Val Thr Val Thr Trp | 185 | 190 | 195 | |
| Tyr Met Gly Thr Gln Ser Gln Pro Gln Arg Thr Phe Pro Glu Ile | | | | |

| | | | | | |
|---|-----|--|-----|--|-----|
| | 200 | | 205 | | 210 |
| Gln Arg Arg Asp Ser Tyr Tyr Met Thr Ser Ser Gln Leu Ser Thr | | | | | |
| | 215 | | 220 | | 225 |
| Pro Leu Gln Gln Trp Arg Gln Gly Glu Tyr Lys Cys Val Val Gln | | | | | |
| | 230 | | 235 | | 240 |
| His Thr Ala Ser Lys Ser Lys Lys Glu Ile Phe Arg Trp Pro Glu | | | | | |
| | 245 | | 250 | | 255 |
| Ser Pro Lys Ala Gln Ala Ser Ser Val Pro Thr Ala Gln Pro Gln | | | | | |
| | 260 | | 265 | | 270 |
| Ala Glu Gly Ser Leu Ala Lys Ala Thr Thr Ala Pro Ala Thr Thr | | | | | |
| | 275 | | 280 | | 285 |
| Arg Asn Thr Gly Arg Gly Gly Glu Glu Lys Lys Lys Glu Lys Glu | | | | | |
| | 290 | | 295 | | 300 |
| Lys Glu Glu Gln Glu Glu Arg Glu Thr Lys Thr Pro Glu Cys Pro | | | | | |
| | 305 | | 310 | | 315 |
| Ser His Thr Gln Pro Leu Gly Val Tyr Leu Leu Thr Pro Ala Val | | | | | |
| | 320 | | 325 | | 330 |
| Gln Asp Leu Trp Leu Arg Asp Lys Ala Thr Phe Thr Cys Phe Val | | | | | |
| | 335 | | 340 | | 345 |
| Val Gly Ser Asp Leu Lys Asp Ala His Leu Thr Trp Glu Val Ala | | | | | |
| | 350 | | 355 | | 360 |
| Gly Lys Val Pro Thr Gly Gly Val Glu Glu Gly Leu Leu Glu Arg | | | | | |
| | 365 | | 370 | | 375 |
| His Ser Asn Gly Ser Gln Ser Gln His Ser Arg Leu Thr Leu Pro | | | | | |
| | 380 | | 385 | | 390 |
| Arg Ser Leu Trp Asn Ala Gly Thr Ser Val Thr Cys Thr Leu Asn | | | | | |
| | 395 | | 400 | | 405 |
| His Pro Ser Leu Pro Pro Gln Arg Leu Met Ala Leu Arg Glu Pro | | | | | |
| | 410 | | 415 | | 420 |
| Ala Ala Gln Ala Pro Val Lys Leu Ser Leu Asn Leu Leu Ala Ser | | | | | |
| | 425 | | 430 | | 435 |
| Ser Asp Pro Pro Glu Ala Ala Ser Trp Leu Leu Cys Glu Val Ser | | | | | |
| | 440 | | 445 | | 450 |
| Gly Phe Ser Pro Pro Asn Ile Leu Leu Met Trp Leu Glu Asp Gln | | | | | |
| | 455 | | 460 | | 465 |
| Arg Glu Val Asn Thr Ser Gly Phe Ala Pro Ala Arg Pro Pro Pro | | | | | |
| | 470 | | 475 | | 480 |
| Gln Pro Gly Ser Thr Thr Phe Trp Ala Trp Ser Val Leu Arg Val | | | | | |
| | 485 | | 490 | | 495 |
| Pro Ala Pro Pro Ser Pro Gln Pro Ala Thr Tyr Thr Cys Val Val | | | | | |
| | 500 | | 505 | | 510 |
| Ser His Glu Asp Ser Arg Thr Leu Leu Asn Ala Ser Arg Ser Leu | | | | | |
| | 515 | | 520 | | 525 |
| Glu Val Ser Tyr Val Thr Asp His Gly Pro Met Lys | | | | | |
| | 530 | | 535 | | |

<210> 3

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 2906265CD1

<400> 3
 Met Gly Thr Arg Leu Leu Phe Trp Val Ala Phe Cys Leu Leu Gly
 1 5 10 15
 Ala Asp His Thr Gly Ala Gly Val Ser Gln Ser Pro Ser Asn Lys
 20 25 30
 Val Thr Glu Lys Gly Lys Asp Val Glu Leu Arg Cys Asp Pro Ile
 35 40 45
 Ser Gly His Thr Ala Leu Tyr Trp Tyr Arg Gln Ser Leu Gly Gln
 50 55 60
 Gly Leu Glu Phe Leu Ile Tyr Phe Gln Gly Asn Ser Ala Pro Asp
 65 70 75
 Lys Ser Gly Leu Pro Ser Asp Arg Phe Ser Ala Glu Arg Thr Gly
 80 85 90
 Gly Ser Val Ser Thr Leu Thr Ile Gln Arg Thr Gln Gln Glu Asp
 95 100 105
 Ser Ala Val Tyr Leu Cys Ala Ser Ser Phe Leu Ala Gly Arg Gly
 110 115 120
 Asn Thr Ile Tyr Phe Gly Glu Gly Ser Trp Leu Thr Val Val Glu
 125 130 135
 Asp Leu Asn Lys Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro
 140 145 150
 Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys
 155 160 165
 Leu Ala Thr Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp
 170 175 180
 Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln
 185 190 195
 Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu
 200 205 210
 Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg
 215 220 225
 Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn
 230 235 240
 Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val
 245 250 255
 Ser Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Val
 260 265 270
 Ser Tyr Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile
 275 280 285
 Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu
 290 295 300
 Val Leu Met Ala Met Val Lys Arg Lys Asp Phe
 305 310

<210> 4

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 788975CD1

<400> 4

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Met Thr Met Arg His Asn Trp Thr Pro Asp Leu Ser Pro Leu Trp
 1      5      10
Val Leu Leu Leu Cys Ala His Val Val Thr Leu Leu Val Arg Ala
      20      25      30
Thr Pro Val Ser Gln Thr Thr Thr Ala Ala Thr Ala Ser Val Arg
      35      40      45
Ser Thr Lys Asp Pro Cys Pro Ser Gln Pro Pro Val Phe Pro Ala
      50      55      60
Ala Lys Gln Cys Pro Ala Leu Glu Val Thr Trp Pro Glu Val Glu
      65      70      75
Val Pro Leu Asn Gly Thr Leu Ser Leu Ser Cys Val Ala Cys Ser
      80      85      90
Arg Phe Pro Asn Phe Ser Ile Leu Tyr Trp Leu Gly Asn Gly Ser
      95     100     105
Phe Ile Glu His Leu Pro Gly Arg Leu Trp Glu Gly Ser Thr Ser
     110     115     120
Arg Glu Arg Gly Ser Thr Gly Thr Gln Leu Cys Lys Ala Leu Val
     125     130     135
Leu Glu Gln Leu Thr Pro Ala Leu His Ser Thr Asn Phe Ser Cys
     140     145     150
Val Leu Val Asp Pro Glu Gln Val Val Gln Arg His Val Val Leu
     155     160     165
Ala Gln Leu Trp Ala Gly Leu Arg Ala Thr Leu Pro Pro Thr Gln
     170     175     180
Glu Ala Leu Pro Ser Ser His Ser Ser Pro Gln Gln Gln Gly
     185     190

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<210> 5

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1407148CD1

<400> 5

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Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu
 1      5      10
Trp Leu Pro Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro
      20      25      30
Ser Phe Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
      35      40      45
Arg Ala Ser Gln Leu Ile Ser Asn His Leu Ala Trp Tyr Gln Gln
      50      55      60
Lys Pro Gly Arg Ala Pro Lys Leu Leu Val His Ser Ala Ser Ile
      65      70      75
Leu Gln Ser Gly Val Pro Leu Arg Phe Ser Gly Ser Gly Tyr Gly
      80      85      90
Thr Glu Phe Thr Leu Thr Val Ala Ser Leu Gln Pro Glu Asp Ser
      95     100     105
Ala Thr Tyr Tyr Cys Gln Gln Arg Asn Gly Tyr Pro Ile Thr Phe
     110     115     120
Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala Pro

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| | | | | | |
|-------------------------------------|-----|-------------------------|-----|--|-----|
| | 125 | | 130 | | 135 |
| Ser Val Phe Ile Phe Pro Pro Ser Asp | | Glu Gln Leu Lys Ser Gly | | | |
| | 140 | | 145 | | 150 |
| Thr Ala Ser Val Val Cys Leu Leu Asn | | Asn Phe Tyr Pro Arg Glu | | | |
| | 155 | | 160 | | 165 |
| Ala Lys Val Gln Trp Lys Val Asp Asn | | Ala Leu Gln Ser Gly Asn | | | |
| | 170 | | 175 | | 180 |
| Ser Gln Glu Ser Val Thr Glu Gln Asp | | Ser Lys Asp Ser Thr Tyr | | | |
| | 185 | | 190 | | 195 |
| Ser Leu Ser Ser Thr Leu Thr Leu Ser | | Lys Ala Asp Tyr Glu Lys | | | |
| | 200 | | 205 | | 210 |
| His Lys Val Tyr Ala Cys Glu Val Thr | | His Gln Gly Leu Ser Ser | | | |
| | 215 | | 220 | | 225 |
| Pro Val Thr Lys Ser Phe Asn Arg Gly | | Glu Cys | | | |
| | 230 | | 235 | | |

<210> 6

<211> 310

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1870848CD1

<400> 6

| | | | |
|---|-----|-----|-----|
| Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu | | | |
| 1 | 5 | 10 | 15 |
| Pro Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly | | | |
| | 20 | 25 | 30 |
| Ala Val Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu | | | |
| | 35 | 40 | 45 |
| Phe Glu Ser Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr | | | |
| | 50 | 55 | 60 |
| Ser Asp Pro Arg Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr | | | |
| | 65 | 70 | 75 |
| Thr Tyr Val Phe Phe Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly | | | |
| | 80 | 85 | 90 |
| Arg Ala Glu Ile Leu Gly Lys Thr Ser Leu Lys Ile Trp Asn Val | | | |
| | 95 | 100 | 105 |
| Thr Arg Arg Asp Ser Ala Leu Tyr Arg Cys Glu Val Val Ala Arg | | | |
| | 110 | 115 | 120 |
| Asn Asp Arg Lys Glu Ile Asp Glu Ile Val Ile Glu Leu Thr Val | | | |
| | 125 | 130 | 135 |
| Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro Lys Ala Val | | | |
| | 140 | 145 | 150 |
| Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser Glu Gly | | | |
| | 155 | 160 | 165 |
| His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro Leu | | | |
| | 170 | 175 | 180 |
| Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn Ser Ser Ser | | | |
| | 185 | 190 | 195 |
| His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala Val His | | | |
| | 200 | 205 | 210 |

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Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp Ala
      215                      220                      225
Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
      230                      235                      240
Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val
      245                      250                      255
Leu Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly
      260                      265                      270
Tyr Phe Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro
      275                      280                      285
Gly Lys Pro Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly
      290                      295                      300
Asp Phe Arg His Lys Ser Ser Phe Val Ile
      305                      310

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<210> 7

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1888468CD1

<400> 7

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Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Ala Thr
  1          5          10          15
Gly Ala His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val
      20          25          30
Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
      35          40          45
Tyr Thr Phe Thr Gly Tyr Tyr Met His Trp Val Arg Gln Ala Pro
      50          55          60
Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Pro Asn Asn Gly
      65          70          75
Asp Thr Phe Tyr Ala His Arg Leu Gln Asp Arg Val Thr Leu Thr
      80          85          90
Thr Asp Thr Ser Ala Thr Thr Gly Tyr Met Glu Leu Arg Ser Leu
      95          100         105
Thr Ser Asp Asp Thr Ala Ile Tyr Tyr Cys Ala Arg Gly Asp Tyr
      110         115         120
Gly Asn Ser Leu Asp His Trp Gly Gln Gly Asn Leu Val Thr Val
      125         130         135
Ser Ser Ala Ser Pro Thr Ser Pro Lys Gly Leu Pro Ala
      140         145

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<210> 8

<211> 310

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<400> 9

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Met Asp Met Arg Val Leu Ala Gln Leu Leu Gly Leu Leu Leu Leu
 1          5          10          15
Cys Phe Pro Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro
          20          25          30
Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
          35          40          45
Arg Ala Ser Gln Asp Ile Ser Asn Tyr Leu Ala Trp Phe Gln Gln
          50          55          60
Lys Pro Gly Thr Ala Pro Lys Ser Leu Ile Tyr Asp Thr Ser Ser
          65          70          75
Leu Gln Ser Gly Val Pro Ser Lys Phe Ser Gly Ser Gly Ser Gly
          80          85          90
Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Gln Pro Glu Asp Phe
          95          100          105
Ala Thr Tyr Tyr Cys Gln Gln His His Ser Tyr Pro Leu Thr Phe
          110          115          120
Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro
          125          130          135
Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
          140          145          150
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
          155          160          165
Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
          170          175          180
Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
          185          190          195
Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
          200          205          210
His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
          215          220          225
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
          230          235

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<210> 10

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 3238787CD1

<400> 10

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Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu
 1          5          10          15
Trp Leu Arg Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro
          20          25          30
Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
          35          40          45
Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn Trp Tyr Gln Gln
          50          55          60
Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Ser
          65          70          75

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Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 80 85 90
 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 95 100 105
 Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro Ile Thr
 110 115 120
 Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala
 125 130 135
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 140 145 150
 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 155 160 165
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
 170 175 180
 Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 185 190 195
 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 200 205 210
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 215 220 225
 Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 230 235

<210> 11
 <211> 148
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 3559548CD1

<400> 11
 Met Asp Trp Thr Trp Ser Ile Leu Phe Leu Val Ala Ala Ala Thr
 1 5 10 15
 Gly Ala His Ser Gln Val His Leu Val Gln Ser Gly Ala Glu Val
 20 25 30
 Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
 35 40 45
 Tyr Thr Phe Thr Ser His Gly Ile Thr Trp Val Arg Gln Ala Pro
 50 55 60
 Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Pro Asn Asn Gly
 65 70 75
 Asp Thr Phe Tyr Ala His Arg Leu Gln Asp Arg Val Thr Leu Thr
 80 85 90
 Thr Asp Thr Ser Ala Thr Thr Gly Tyr Met Glu Leu Arg Ser Leu
 95 100 105
 Thr Ser Asp Asp Thr Ala Ile Tyr Tyr Cys Ala Arg Gly Asp Tyr
 110 115 120
 Gly Asn Ser Leu Asp His Trp Gly Gln Gly Asn Leu Val Thr Val
 125 130 135
 Ser Ser Ala Ser Pro Thr Ser Pro Lys Gly Leu Pro Ala
 140 145

<210> 12
 <211> 236
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 3872741CD1

<400> 12
 Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu
 1 5 10 15
 Trp Leu Ser Gly Ala Arg Cys Asp Thr Gln Met Thr Gln Ser Pro
 20 25 30
 Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Leu Thr Ile Thr Cys
 35 40 45
 Gln Ala Ser Glu Asp Val Ile Lys Tyr Val Asn Trp Tyr Gln Gln
 50 55 60
 Lys Pro Arg Lys Ala Pro Lys Leu Leu Ile His Asp Ala Ser Asn
 65 70 75
 Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 80 85 90
 Thr Leu Phe Thr Phe Thr Ile Ser Asn Leu Gln Pro Glu Asp Val
 95 100 105
 Ala Thr Tyr Tyr Cys Gln His Tyr Ala Ser His Pro Leu Thr Phe
 110 115 120
 Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro
 125 130 135
 Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 140 145 150
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
 155 160 165
 Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 170 175 180
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
 185 190 195
 Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 200 205 210
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 215 220 225
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 230 235

<210> 13
 <211> 237
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 3981428CD1

<400> 13
 Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu

1 5 10 15
 Trp Leu Arg Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro
 20 25 30
 Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Met Thr Cys
 35 40 45
 Arg Ala Ser Gln Ser Ile Ser Thr Tyr Leu Asn Trp Tyr Gln Gln
 50 55 60
 Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Ser
 65 70 75
 Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 80 85 90
 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 95 100 105
 Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Asn Thr His Met Tyr Thr
 110 115 120
 Phe Gly Gln Gly Thr Arg Leu Glu Met Lys Arg Thr Val Ala Ala
 125 130 135
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
 140 145 150
 Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 155 160 165
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
 170 175 180
 Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 185 190 195
 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 200 205 210
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 215 220 225
 Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 230 235

<210> 14

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 4635039CD1

<400> 14

Met Asp Trp Thr Trp Arg Ile Leu Phe Leu Val Ala Ala Val Thr
 1 5 10 15
 Gly Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val
 20 25 30
 Arg Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
 35 40 45
 Tyr Thr Phe Ser Asp His Tyr Ile His Trp Val Arg Gln Ala Pro
 50 55 60
 Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Asn Pro Asn Ser Gly
 65 70 75
 Gly Ala Arg Tyr Ala Gln Gly Phe Gln Gly Leu Val Thr Met Thr
 80 85 90

Arg Asp Thr Ser Ile Ser Thr Ala Tyr Leu Glu Leu Arg Gly Leu
 95 100 105
 Arg Ser Asp Gly Ser Ala Val Tyr Phe Cys Ala Arg Gln Thr Thr
 110 115 120
 Ser Ser Pro Val Gly Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr
 125 130 135
 Met Val Thr Val Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe
 140 145 150
 Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp Gly Asn Val Val Ile
 155 160 165
 Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu Pro Leu Ser Val
 170 175 180
 Thr Trp Ser Glu Thr Asp Gln Gly Val Thr Ala Lys Lys Leu Pro
 185 190 195
 Thr Gln Pro Gly Cys Leu Arg Gly Thr Val Asn His Glu Gln Pro
 200 205 210
 Ala Asp Pro Ala Gly Gln Asn Ser Ala
 215

<210> 15
 <211> 241
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 3240710CD1

<400> 15
 Met Arg Leu Pro Ala Gln Leu Leu Gly Leu Leu Met Leu Trp Ile
 1 5 10 15
 Pro Gly Ser Ser Ala Asp Ile Val Leu Thr Gln Thr Pro Leu Ser
 20 25 30
 Leu Ser Val Thr Pro Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser
 35 40 45
 Ser Glu Ser Leu Leu His Thr Asp Gly Lys Thr Tyr Leu His Trp
 50 55 60
 Phe Val Gln Lys Ala Gly Gln Pro Pro Gln Val Leu Met Tyr Glu
 65 70 75
 Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
 80 85 90
 Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala
 95 100 105
 Glu Asp Val Arg Ile Tyr Tyr Cys Met Arg Thr Ile Gln Val Pro
 110 115 120
 Pro Thr Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 125 130 135
 Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 140 145 150
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 155 160 165
 Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
 170 175 180
 Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser

| | | | | | |
|-----------------|---------------------|---------------------|-----|--|-----|
| | 185 | | 190 | | 195 |
| Lys Asp Ser Thr | Tyr Ser Leu Ser Ser | Thr Leu Thr Leu Ser | Lys | | |
| | 200 | | 205 | | 210 |
| Ala Asp Tyr Glu | Lys His Lys Val Tyr | Ala Cys Glu Val Thr | His | | |
| | 215 | | 220 | | 225 |
| Gln Gly Leu Ser | Ser Pro Val Thr Lys | Ser Phe Asn Arg Gly | Glu | | |
| | 230 | | 235 | | 240 |
| Cys | | | | | |

<210> 16

<211> 507

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 4945813CD1

<400> 16

| | | |
|---------------------|-----------------|-------------------------|
| Met Asp Leu Leu Cys | Lys Asn Met Lys | His Leu Trp Phe Phe Leu |
| 1 | 5 | 10 15 |
| Leu Leu Val Ala Ala | Pro Arg Trp Val | Leu Ser Gln Leu Gln Leu |
| | 20 | 25 30 |
| Gln Glu Ser Gly Pro | Gly Leu Val Lys | Pro Ser Glu Thr Leu Ser |
| | 35 | 40 45 |
| Leu Thr Cys Thr Val | Ser Gly Gly Ser | Ile Ser Ser Tyr Asn His |
| | 50 | 55 60 |
| Tyr Trp Gly Trp Val | Arg Gln Pro Pro | Gly Lys Gly Leu Glu Trp |
| | 65 | 70 75 |
| Ile Gly Ser Ile Phe | Tyr Thr Gly Asn | Ser Tyr Tyr Asn Pro Ser |
| | 80 | 85 90 |
| Leu Lys Ser Arg Leu | Ala Ile Ser Val | Asp Thr Ser Lys Ser Gln |
| | 95 | 100 105 |
| Leu Ser Leu Lys Leu | Ser Ser Val Thr | Ala Ala Asp Thr Ala Val |
| | 110 | 115 120 |
| Tyr Tyr Cys Ala Thr | Val Pro Lys Thr | Arg Ser Arg Pro Arg Gly |
| | 125 | 130 135 |
| Tyr Thr Tyr Gly Pro | Phe Asp Phe Trp | Gly Gln Gly Thr Leu Val |
| | 140 | 145 150 |
| Thr Val Ser Ser Ala | Ser Pro Thr Ser | Pro Lys Val Phe Pro Leu |
| | 155 | 160 165 |
| Ser Leu Cys Ser Thr | Gln Pro Asp Gly | Asn Val Val Ile Ala Cys |
| | 170 | 175 180 |
| Leu Val Gln Gly Phe | Phe Pro Gln Glu | Pro Leu Ser Val Thr Trp |
| | 185 | 190 195 |
| Ser Glu Ser Gly Gln | Gly Val Thr Ala | Arg Asn Phe Pro Pro Ser |
| | 200 | 205 210 |
| Gln Asp Ala Ser Gly | Asp Leu Tyr Thr | Thr Ser Ser Gln Leu Thr |
| | 215 | 220 225 |
| Leu Pro Ala Thr Gln | Cys Leu Ala Gly | Lys Ser Val Thr Cys His |
| | 230 | 235 240 |
| Val Lys His Tyr Thr | Asn Pro Ser Gln | Asp Val Thr Val Pro Cys |
| | 245 | 250 255 |
| Pro Val Pro Ser Thr | Pro Pro Thr Pro | Ser Pro Ser Thr Pro Pro |

| | | | | | |
|-----------------|---------------------|---------------------|-----|--|-----|
| | 260 | | 265 | | 270 |
| Thr Pro Ser Pro | Ser Cys Cys His Pro | Arg Leu Ser Leu His | Arg | | |
| | 275 | | 280 | | 285 |
| Pro Ala Leu Glu | Asp Leu Leu Leu Gly | Ser Glu Ala Asn Leu | Thr | | |
| | 290 | | 295 | | 300 |
| Cys Thr Leu Thr | Gly Leu Arg Asp Ala | Ser Gly Val Thr Phe | Thr | | |
| | 305 | | 310 | | 315 |
| Trp Thr Pro Ser | Ser Gly Lys Ser Ala | Val Gln Gly Pro Pro | Glu | | |
| | 320 | | 325 | | 330 |
| Arg Asp Leu Cys | Gly Cys Tyr Ser Val | Ser Ser Val Leu Pro | Gly | | |
| | 335 | | 340 | | 345 |
| Cys Ala Glu Pro | Trp Asn His Gly Lys | Thr Phe Thr Cys Thr | Ala | | |
| | 350 | | 355 | | 360 |
| Ala Tyr Pro Glu | Ser Lys Thr Pro Leu | Thr Ala Thr Leu Ser | Lys | | |
| | 365 | | 370 | | 375 |
| Ser Gly Asn Thr | Phe Arg Pro Glu Val | His Leu Leu Pro Pro | Pro | | |
| | 380 | | 385 | | 390 |
| Ser Glu Glu Leu | Ala Leu Asn Glu Leu | Val Thr Leu Thr Cys | Leu | | |
| | 395 | | 400 | | 405 |
| Ala Arg Gly Phe | Ser Pro Lys Asp Val | Leu Val Arg Trp Leu | Gln | | |
| | 410 | | 415 | | 420 |
| Gly Ser Gln Glu | Leu Pro Arg Glu Lys | Tyr Leu Thr Trp Ala | Ser | | |
| | 425 | | 430 | | 435 |
| Arg Gln Glu Pro | Ser Gln Gly Thr Thr | Thr Phe Ala Val Thr | Ser | | |
| | 440 | | 445 | | 450 |
| Ile Leu Arg Val | Ala Ala Glu Asp Trp | Lys Lys Gly Asp Thr | Phe | | |
| | 455 | | 460 | | 465 |
| Ser Cys Met Val | Gly His Glu Ala Leu | Pro Leu Ala Phe Thr | Gln | | |
| | 470 | | 475 | | 480 |
| Lys Thr Ile Asp | Arg Leu Ala Gly Lys | Pro Thr His Val Asn | Val | | |
| | 485 | | 490 | | 495 |
| Ser Val Val Met | Ala Glu Val Asp Gly | Thr Cys Tyr | | | |
| | 500 | | 505 | | |

<210> 17

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 4948957CD1

<400> 17

| | | | |
|---------------------|---------------------|---------------------|-----|
| Met Val Leu Gln Thr | Gln Val Phe Ile | Ser Leu Leu Leu Trp | Ile |
| 1 | 5 | 10 | 15 |
| Ser Val Leu Thr | Ala Gly Ala Tyr Gly | Asp Ile Val Met Thr | Gln |
| | 20 | 25 | 30 |
| Ser Pro Asp Ser | Leu Ala Val Ser Leu | Gly Glu Arg Ala Thr | Ile |
| | 35 | 40 | 45 |
| Thr Cys Lys Ser | Ser Gln Ser Val Phe | Tyr Asn Ser Asn Asn | Lys |
| | 50 | 55 | 60 |
| Asn Tyr Leu Val | Trp Tyr Gln Gln Arg | Pro Gly Gln Pro Pro | Lys |
| | 65 | 70 | 75 |

Met Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp
 80 85 90
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 95 100 105
 Ser Ser Leu Gln Ala Glu Asp Val Ala Leu Tyr Tyr Cys Gln Gln
 110 115 120
 Tyr Phe Thr Thr Pro Tyr Thr Phe Gly Gln Gly Thr Arg Leu Glu
 125 130 135
 Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
 140 145 150
 Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
 155 160 165
 Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
 170 175 180
 Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
 185 190 195
 Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr
 200 205 210
 Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu
 215 220 225
 Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn
 230 235 240
 Arg Gly Glu Cys

<210> 18
 <211> 240
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 4949649CD1

<400> 18
 Met Ser Val Pro Thr Met Ala Trp Met Met Leu Leu Leu Gly Leu
 1 5 10 15
 Leu Ala Tyr Gly Ser Gly Val Asp Ser Gln Thr Val Val Thr Gln
 20 25 30
 Glu Pro Ser Leu Ser Val Ser Pro Gly Gly Thr Val Thr Leu Thr
 35 40 45
 Cys Gly Leu Ala Ser Asp Ser Val Ser Thr Asn Phe Phe Pro Thr
 50 55 60
 Trp Tyr Gln Gln Thr Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr
 65 70 75
 Ser Thr Ser Thr Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly
 80 85 90
 Ser Ile Leu Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln
 95 100 105
 Ala Asp Asp Glu Ser Asp Tyr Tyr Cys Ala Leu Tyr Met Gly Ser
 110 115 120
 Gly Ile Ser Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly
 125 130 135
 Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
 140 145 150

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Glu | Leu | Gln | Ala | Asn | Lys | Ala | Thr | Leu | Val | Cys | Leu | Ile | Ser | |
| | | | | 155 | | | | | 160 | | | | | 165 | |
| Asp | Phe | Tyr | Pro | Gly | Ala | Val | Thr | Val | Ala | Trp | Lys | Ala | Asp | Ser | |
| | | | | 170 | | | | | 175 | | | | | 180 | |
| Ser | Pro | Val | Lys | Ala | Gly | Val | Glu | Thr | Thr | Thr | Pro | Ser | Lys | Gln | |
| | | | | 185 | | | | | 190 | | | | | 195 | |
| Ser | Asn | Asn | Lys | Tyr | Ala | Ala | Ser | Ser | Tyr | Leu | Ser | Leu | Thr | Pro | |
| | | | | 200 | | | | | 205 | | | | | 210 | |
| Glu | Gln | Trp | Lys | Ser | His | Arg | Ser | Tyr | Ser | Cys | Gln | Val | Thr | His | |
| | | | | 215 | | | | | 220 | | | | | 225 | |
| Glu | Gly | Ser | Thr | Val | Glu | Lys | Thr | Val | Ala | Pro | Thr | Glu | Cys | Ser | |
| | | | | 230 | | | | | 235 | | | | | 240 | |

<210> 19

<211> 398

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 5500302CD1

<400> 19

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ser | Gly | Ser | Ser | Leu | Pro | Ser | Ala | Leu | Ala | Leu | Ser | Leu | Leu | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Leu | Val | Ser | Gly | Ser | Leu | Leu | Pro | Gly | Pro | Gly | Ala | Ala | Gln | Asn | |
| | | | | 20 | | | | | 25 | | | | | 30 | |
| Ala | Gly | Phe | Val | Lys | Ser | Pro | Met | Ser | Glu | Thr | Lys | Leu | Thr | Gly | |
| | | | | 35 | | | | | 40 | | | | | 45 | |
| Asp | Ala | Phe | Glu | Leu | Tyr | Cys | Asp | Val | Val | Gly | Ser | Pro | Thr | Pro | |
| | | | | 50 | | | | | 55 | | | | | 60 | |
| Glu | Ile | Gln | Trp | Trp | Tyr | Ala | Glu | Val | Asn | Arg | Ala | Glu | Ser | Phe | |
| | | | | 65 | | | | | 70 | | | | | 75 | |
| Arg | Gln | Leu | Trp | Asp | Gly | Ala | Arg | Lys | Arg | Arg | Val | Thr | Val | Asn | |
| | | | | 80 | | | | | 85 | | | | | 90 | |
| Thr | Ala | Tyr | Gly | Ser | Asn | Gly | Val | Ser | Val | Leu | Arg | Ile | Thr | Arg | |
| | | | | 95 | | | | | 100 | | | | | 105 | |
| Leu | Thr | Leu | Glu | Asp | Ser | Gly | Thr | Tyr | Glu | Cys | Arg | Ala | Ser | Asn | |
| | | | | 110 | | | | | 115 | | | | | 120 | |
| Asp | Pro | Lys | Arg | Asn | Asp | Leu | Arg | Gln | Asn | Pro | Ser | Ile | Thr | Trp | |
| | | | | 125 | | | | | 130 | | | | | 135 | |
| Ile | Arg | Ala | Gln | Ala | Thr | Ile | Ser | Val | Leu | Gln | Lys | Pro | Arg | Ile | |
| | | | | 140 | | | | | 145 | | | | | 150 | |
| Val | Thr | Ser | Glu | Glu | Val | Ile | Ile | Arg | Asp | Ser | Pro | Val | Leu | Pro | |
| | | | | 155 | | | | | 160 | | | | | 165 | |
| Val | Thr | Leu | Gln | Cys | Asn | Leu | Thr | Ser | Ser | Ser | His | Thr | Leu | Thr | |
| | | | | 170 | | | | | 175 | | | | | 180 | |
| Tyr | Ser | Tyr | Trp | Thr | Lys | Asn | Gly | Val | Glu | Leu | Ser | Ala | Thr | Arg | |
| | | | | 185 | | | | | 190 | | | | | 195 | |
| Lys | Asn | Ala | Ser | Asn | Met | Glu | Tyr | Arg | Ile | Asn | Lys | Pro | Arg | Ala | |
| | | | | 200 | | | | | 205 | | | | | 210 | |
| Glu | Asp | Ser | Gly | Glu | Tyr | His | Cys | Val | Tyr | His | Phe | Val | Ser | Ala | |
| | | | | 215 | | | | | 220 | | | | | 225 | |
| Pro | Lys | Ala | Asn | Ala | Thr | Ile | Glu | Val | Lys | Ala | Ala | Pro | Asp | Ile | |

230 235 240
 Thr Gly His Lys Arg Ser Glu Asn Lys Asn Glu Gly Gln Asp Ala
 245 250 255
 Thr Met Tyr Cys Lys Ser Val Gly Tyr Pro His Pro Asp Trp Ile
 260 265 270
 Trp Arg Lys Lys Glu Asn Gly Met Pro Met Asp Ile Val Asn Thr
 275 280 285
 Ser Gly Arg Phe Phe Ile Ile Asn Lys Glu Asn Tyr Thr Glu Leu
 290 295 300
 Asn Ile Val Asn Leu Gln Ile Thr Glu Asp Pro Gly Glu Tyr Glu
 305 310 315
 Cys Asn Ala Thr Asn Ala Ile Gly Ser Ala Ser Val Val Thr Val
 320 325 330
 Leu Arg Val Arg Ser His Leu Ala Pro Leu Trp Pro Phe Leu Gly
 335 340 345
 Ile Leu Ala Glu Ile Ile Ile Leu Val Val Ile Ile Val Val Tyr
 350 355 360
 Glu Lys Arg Lys Arg Pro Asp Glu Val Pro Asp Asp Asp Glu Pro
 365 370 375
 Ala Gly Pro Met Lys Thr Asn Ser Thr Asn Asn His Lys Asp Lys
 380 385 390
 Asn Leu Arg Gln Arg Asn Thr Asn
 395

<210> 20
 <211> 917
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 079785CB1

<400> 20
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 gctccgaggt gccagatgtg acatccagat gacccagtct ccatcctccc tgtctgcata 120
 tgtaggagac agagtcacca tcacttgccg ggcaggtcag agcattagca gctattttaa 180
 ttggtatcag cagaaaccag ggaaagcccc taagctcctg atctatgctg catccagttt 240
 gcaaagtggg gtcccatcaa ggttcagtgg cagtggatct gggacagatt tcaactctac 300
 catcagcagt ctgcaacctg aagattttgc aacttactac tgtcaacaga gttacagtac 360
 ccctccgatc accttcggcc aagggaacag actggagatt aaacgaactg tggctgcacc 420
 atctgtcttc atcttcccg cactctgatga gcagttgaaa tctggaactg cctctgttgt 480
 gtgcctgctg aataacttct atcccagaga ggccaaagta cagtggaagg tggataacgc 540
 cctccaatcg ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta 600
 cagcctcagc agcaccctga cgctgagcaa agcagactac gagaaacaca aagtctacgc 660
 ctgcgaagtc acccatcagg gcctgagctc gcccgtcaca aagagcttca acaggggaga 720
 gtgttagagg gagaagtgcc cccacctgct cctcagttcc agcctgaccc cctcccatcc 780
 tttggcctct gacccttttt ccacagggga cctaccctta ttgcggtoct ccagctcatc 840
 tttcacctca cccccctcct cctccttggc tttaattatg ctaatgttgg aggagaatga 900
 ataaataaag tgatcga 917

<210> 21
 <211> 1746

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID NO: 2469025CB1

<400> 21
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cctgtggttc ttcctcctcc tgggtggcagc tcccagatgg gtcctgtccc aggtgcagct 120
acagcagtg ggcgcaggac tgttgaagcc ttcggagacc ctgtccctca cctgcgctgt 180
ctatggtggg tccttcagtg gttactactt aagtggttac tactggagct ggatccgcca 240
gccccacagg aaggggctgg agtggattgg ggaaatcaat catagtggaa gcaccaacta 300
caacccgtcc ctcaagagtc gagtcacat atcagtagac acgtccaaga accagttctc 360
cctgaagctg agctctgtga ccgcccggga cagggtgtg tattactgtg cgagaggcag 420
gagtgatagt agtgggtccc catatggact tgactactgg ggccagggaa ccctgggtcac 480
cgtctcctca gcacccacca aggtcccgga tgtgttcccc atcatatcag ggtgcagaca 540
cccaaaggat aacagccctg tggtcctggc atgcttgata actgggtacc acccaacgtc 600
cgtgactgtc acctggtaca tggggacaca gagccagccc cagagaacct tccctgagat 660
acaaagacgg gacagctact acatgacaag cagccagctc tccaccccc tccagcagtg 720
gcgccaaggc gagtacaaat gcgtgggtcca gcacaccgcc agcaagagta agaaggagat 780
cttcgcgtgg ccagagtctc caaaggcaca ggccctcctca gtgcccactg cacaacccca 840
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aggaggagaa gagaagaaga aggagaagga gaaagaggaa caagaagaga gagagacaaa 960
gacaccagag tgtccgagcc acaccagcc tcttggcgct tacctgctaa cccctgcagt 1020
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gagtgtgctg cgtgtcccag ccccgcccag cctcagcca gccacctaca cgtgtgtggt 1560
cagccacgag gactcccga ctctgctcaa cgccagccgg agcctagaag tcagctatgt 1620
aacagaccat ggccccatga aatgatcccg gaccagatcc gtccacaccc gccactcagc 1680
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aaaaaa 1746

<210> 22
<211> 1160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID NO: 2906265CB1

<400> 22
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ctcaggtgtg atccaatttc aggtcact gccccttact ggtaccgaca gagcctgggg 180
cagggcctgg agtttttaaat ttacttccaa ggcaacagt caccagacaa atcagggctg 240
cccagtgatc gcttctctgc agagaggact gggggatccg tctccactct gacgatccag 300

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cgcacacagc aggaggactc ggccgtgtat ctctgtgcc a gcagctttct tgcagggagg 360
ggaaacacca tatatttttg agaggggaagt tggctcactg ttgtagagga cctgaacaag 420
gtgttccac cccaggtcgc tgtgtttgag ccatcagaag cagagatctc ccacaccaa 480
aaggccacac tgggtgtgct ggccacagggc ttcttccctg accacgtgga gctgagctgg 540
tggttgaatg ggaaggaggc gcacagtggg gtcagcacgg acccgagcc cctcaaggag 600
cagcccgccc tcaatgactc cagatactgc ctgagcagcc gcctgagggt ctggtccacc 660
ttctggcaga acccccgcaa ccacttccgc tgtcaagtcc agttctacgg gctctcggag 720
aatgacgagt ggacccagga tagggccaaa cccgtcacc agatcgtcag cggcgaggcc 780
tggtgtagag cagactgtgg ctttacctcg gtgtcctacc agcaaggggt cctgtctgcc 840
accatcctct atgagatcct gctagggaag gccaccctgt atgctgtgct ggtcagcgcc 900
cttgtgttga tggccatggc caagagaaaag gatttctgaa ggcagccctg gaagtggagt 960
taggagcttc taaccgctca tggtttcaat acacattctt cttttgccag cgcttctgaa 1020
gagtgctct catctctctg catcccaata gatatcccc tatgtgcatg cacacctgca 1080
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aaataaaaat gttcttgtca 1160

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<210> 23

<211> 1356

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 788975CB1

<400> 23

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cctcagccct ttgtgggtcc tgcctcctgt tggccacgtc gtcactctcc tggtcagagc 180
cacacgtctc tcgcagacca ccacagctgc cactgcctca gttagaagca caaaggaccc 240
ctgccccctc cagccccagc tgttcccagc agctaagcag tgtccagcat tggagtgac 300
ctggccagag gtggaagtgc cactgaatgg aacgtgagc ttatcctgtg tggcctgcag 360
ccgttcccc aacttcagca tcctctactg gctgggcaat ggttccctca ttgagcacct 420
cccaggccga ctgtgggagg ggagcaccag ccgggaacgt gggagcacag gtacgcagct 480
gtgcaaggcc ttggtgctgg agcagctgac ccctgccctg cacagcacca acttctcctg 540
tgtgtcctg gacctgaac aggttgtcca gcgtcacgtc gtcctggccc agctctgggc 600
tggtgtgagg gcaaccttgc cccccacca agaagccctg ccctccagcc acagcagtc 660
acagcagcag ggttaagact cagcacaggg ccagcagcag cacaaccttg accagagctt 720
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cccacctacc tagaaaatca cagcctcctt ataatgcctc ctctcctgc cattctctct 900
ccacctatcc attagccttc ctaacgtcct actcctcaca ctgctctact gtcagaaaac 960
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ctgctcattt agtcccgtct tcctcaccgc ccagcaggg gaacgctcaa gcctgggtga 1140
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tatcttcgtg ctgtatgttt ttttttttcc cccttcactc taatggactg ttccagggaa 1260
gggatggggg cagcagctgc ttccggatcca cactgtatct gtgtcatccc cacatgggtc 1320
ctcataaagg attattcaat ggaggcaaaa aaaaaa 1356

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<210> 24

<211> 916

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1407148CB1

<400> 24

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tgtgggagac agagtcacca tcaactgccg ggccagtcag ctcattagta atcatttagc 180
ctgggtatcag caaaagccag ggagagcccc taaactcctg gtccatagtg catccattct 240
gcaaagtggg gtcccatata gattcagcgg cagtggatac gggacagagt tcaactctcac 300
agtcgccagc ctgcagcctg aggattccgc aacttattac tgtcaacagc gcaacgggta 360
tccgatcacc ttccggccaag ggacacgcct ggagattaaa cgaactgtgg ctgcaccatc 420
tgtcttcatc ttcccgccat ctgatgagca gttgaaatct ggaactgcct ctgttggtgtg 480
cctgctgaat aacttctatc ccagagaggc caaagtacag tggaagggtg ataacgccct 540
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<210> 25

<211> 1956

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1870848CB1

<400> 25

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<210> 26

<211> 589

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1888468CB1

<400> 26

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tcttgaccac tggggccagg gaaacctggt cactgtctcc tcagcatccc cgaccagccc 480
caaaggtctt ccgcttgag cctctgcaag caccagccc agatggggaa ccgtgggtcaa 540
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<210> 27

<211> 1388

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID NO: 2770104CB1

<400> 27

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acgccatgac ccccatcgtc acagtcctga tctgtctcgg gctgagtctg ggccccagga 420
cccacgtgca gacaggggacc atccccaagc ccacctgtg ggctgagcca gactctgtga 480

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<210> 28
 <211> 817
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID NO: 2851053CB1

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cttcatcttc ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct 480
gctgaataac ttctatccca gagaggccaa agtacagtgg aagggtggata acgccctcca 540
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gagggagaag tgtccccacc tgctcctcag ttcagcctga cccctccca tcttttgggc 780
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<210> 29
 <211> 936
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 3238787CB1

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<400> 29
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catcctttgg cctctgaccc tttttccaca ggggacctac ccctattgcg gtccctcagc 840
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<210> 30

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 3559548CB1

<400> 30

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gggtgaagaag cctggggcct cagtgaagggt ctcttgcaag gcttctgggt acacctttac 180
cagtcatggt atcacctggg tgccggcaggc ccctggacaa gggcttgagt ggatgggggtg 240
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gaccacagac acatcggcga ccacaggcta catggagctg aggagcctga catctgacga 360
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gggaaacctg gtcactgtct cctcagcatc cccgaccagc cccaaagggtc ttcccgcttg 480
agcctctgca agcaccagc ccagatgggg aaccgtgggtc aatcgctgct cctgggtcca 540
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<210> 31

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 3872741CB1

<400> 31

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tgcactgtgc ggagacagac tcaccatcac ttgccaggcg agtgaggacg tcatcaataa 180
tgtgaattgg tatcaacaaa aacctaggaa agccctaaa ctctgatcc acgatgcac 240
caatttgga acaggggtcc catcaagggt cagtggaggt ggatctggga cactttttac 300
tttcaccatc agcaacctgc agcctgaaga tgttgcaaca tattactgtc agcactatgc 360

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tagtcatccg ctcacttttcg gcggagggac caaggtggag atcaaacgaa ctgtggctgc 420
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tgtgtgcctg ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa 540
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tcctttggcc tctgagcctt tttccacaag gggactacct ctattgcggg tctccagctc 840
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<210> 32

<211> 928

<212> DNA

<213> Homo sapiens

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<223> Incyte ID NO: 3981428CB1

<400> 32

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<210> 33

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 4635039CB1

<400> 33

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gtctggggct gaggtgagga agcctggggc ctcagtgaag gtctcctgta aggttctggt 180
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gagatctgac ggctcggccg tgtacttctg tgcgagacaa accacctcgt ctctgtagg 420
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aaaccacgag cagccagctg acctgcccgg gcaaaacagt gcctaaccgg gaaaattcgg 720
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<210> 34

<211> 925

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 3240710CB1

<400> 34

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<210> 35

<211> 1584

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 4945813CB1

<400> 35

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caaggtcttc ccgctgagcc tctgcagcac ccagccagat gggaaacgtgg tcatcgctg 540
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gggcgtgacc gccagaaact tcccacccag ccaggatgcc tccggggacc tgtacaccac 660
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<210> 36
 <211> 804
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID NO: 4948957CB1

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